**IT Applications**

**Mock-up Diagram**

1. What is a mock-up diagram?  
   Mock-up diagram is a sample of the actual website that you are creating.

**Layout Diagrams**

1. What is the role of a layout diagram?  
   The role is to provide you with a visual representation of how the final design should look.

**Storyboards**

1. List the features that should be included on storyboards.  
   -Title/heading  
   -Page filename  
   -Client’s name  
   -Designer’s name  
   -Page number  
   -Background colour code/image filename  
   -Screen dimensions  
   -Purpose/description  
   -A list of required image filenames and their memory size  
   -A list of the required link filenames.

**Site Map**

1. What is the role of a site map?  
   It gives you a representation of how each page of the website links together.

**Test Data**

1. List the elements in web page design that are tested.  
   -Fonts  
   -Styles  
   -Type sizes  
   -Spacing  
   -Messages

**Choosing conventions and applying formats of web pages**

Summarise the main points under the following sub-headings:

1. Naming of files  
   They need to be short and meaningful. Need to be in lower case. Each web page needs to saved with a unique name and are limited to 16 characteristics and contain only letters, numbers or the underscore symbol. Image filenames also need to be meaningful.
2. Screen Size  
   Need to remember that other users may have smaller screens.
3. Index page  
   Should contain;  
   -Contact email address  
   -Date of last modification of website  
   -Author or company’s name and contact details.
4. General tips for effective website design  
   -Most of the text and images should be inside the dimensions of the screen size  
   -Shouldn’t have to scroll for over 2 page lengths of the screen  
   -Use bold and italics sparingly.  
   -Don’t underline words, as they get confused with hyperlinks  
   -Consistent navigation buttons  
   -Should be a button link all pages back to the index page.

**Design elements that influence the presentation of on-screen information products**

1. List elements of design that need to be taken into consideration for on-screen products.  
   -Provides necessary information  
   -Doesn’t take too long to load  
   -Navigation needs to be clear and concise.  
   -Needs to be informative  
   -Thumbnails as pictures  
   -Links are highlighted after being clicked on  
   -Needs to have a consistent design

**Develop the solution**

**Techniques and procedures for manipulating information to create working prototype websites.**

1. Describe the nature of a prototype website.  
   It is a model or simulation of a website that demonstrates it’s functionality, partial navigation options and interface.
2. List the types of validation undertaken for a website.  
   Manual validation  
   Data entry person checks the data to make sure it is correct. This is done through proofreading documents and checking for spelling, grammar and punctuation errors. Also checking numerical data for accuracy and reasonableness.  
   Electronic validation  
   Software features that check spelling and grammar to verify their accuracy.
3. In the manipulation of data what is the difference between cropping an image and scaling a graphic?  
   Cropping the image just removes a part of the image that isn’t wanted. Scaling is where the whole image is resized.

**Testing a Solution**

Elaborate under each of the following attributes that should be tested:

1. Functionality  
   It relates to the activities and actions that it was designed to carry out.  
   Need to look at the original problem and determine if the solution meets the organisations needs.
2. Presentation  
   Decision needs to be made on the appropriate format of the solution. While considering the target audience  
   To test the presentation of a website a survey would be needed. You would survey a sample of the target audience and get them to rate the site.
3. Usability  
   All presentations need to be usable and user-friendly. The information that is being conveyed should be easily accessible to users.
4. Communication of the message  
   The important information in the presentation needs to be clear and obvious.

**Evaluation:**

**Evaluating the effectiveness of websites**

1. By whom and when should the evaluation occur?  
   About after 6 months the evaluation should occur and should be completed by someone other than the web designer.
2. List the ways in which evaluation can occur.